Australian Standard™

Hose and hose assemblies for distribution of petroleum and petroleum products (excepting LPG)

Standards Australia

This Australian Standard was prepared by Committee RU/1, Industrial Hose. It was approved on behalf of the Council of Standards Australia on 31 May 2000 and published on 25 July 2000.

The following interests are represented on Committee RU/1:

Australasian Railway Association

Australian Chamber of Commerce and Industry

Australian Gas Association

Australian Industry Group

Plastics and Chemicals Industries Association

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Australia web site at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Australian Standard*, has a full listing of revisions and amendments published each month.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.com.au, or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

This Standard was issued in draft form for comment as DR 99055.

Australian Standard™

Hose and hose assemblies for distribution of petroleum and petroleum products (excepting LPG)

Originated as AS 2683—1984.
Previous edition 1989.
Third edition 2000.

Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 3479 0

PREFACE

This Standard was prepared by the Joint Standards Australia Committee RU/1, Industrial Hose, to supersede AS 2683—1989.

This Standard is the result of a consensus among the representatives on the Joint Committee to produce it as an Australian Standard.

The objective of this Standard is to provide a hose that is safe to use with petroleum and petroleum products.

This Standard differs from the 1989 edition in the following respects:

(a) Adhesion properties—not applicable to composite hose.

(b) Inclusion of dynamic bend radius for aircraft hose.

(c) Twisting aspects.

(d) Requirements for proof pressure and crush recovery have been included.

This Standard differs from ISO 1825:1996, *Rubber hoses and hose assemblies for aircraft ground fuelling and defuelling—Specification*, and ISO 2929:1991, *Rubber hoses for bulk fuel truck delivery—Specification*, in the following respects:

(i) The Standard has dilation requirements where metered pumps are used.

(ii) The Standard has a grade of hose suitable for an aromatic hydrocarbon content greater than 50 percent.

(iii) The Standard specifies an ambient range of temperature of –20°C to +55°C which is more suitable for Australia, compared with the extra low temperature requirement of –40°C specified in both ISO Standards.

(iv) ISO 2929 cannot be adopted as it is not intended for aviation fuel, and is also not suitable for metered pumps. Also, the Types of hose are only pressure regulated, and the full range of electrical kinds are not covered.

(v) ISO 1825 cannot be adopted because the aromatic hydrocarbon content cannot exceed 30 percent by volume. Also, it does not cover the use of hose with metered pumps.

Appendix H, Method for determining crush recovery of aircraft hose, has been adopted from ISO 1825:1996.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

CONTENTS

Page